

# United States Patent [19]

Sasaki et al.

[11] Patent Number: 5,064,916

[45] Date of Patent: Nov. 12, 1991

[54] **ORGANOPOLYSILOXANE COMPOSITION  
FOR THE FORMATION OF A CURED  
RELEASE FILM**

[75] Inventors: **Shosaku Sasaki, Ichihara; Hiroshi  
Masaoka**, Saitama, both of Japan

[73] Assignee: **Toray Silicone Company, Ltd.**,  
Tokyo, Japan

[21] Appl. No.: **439,965**

[22] Filed: **Nov. 21, 1989**

[30] **Foreign Application Priority Data**

Nov. 25, 1988 [JP] Japan ..... 63-299301

[51] Int. Cl.<sup>5</sup> ..... **C08F 283/00**

[52] U.S. Cl. .... **525/478; 528/15;  
528/20; 528/12; 528/21; 528/31; 528/32;  
524/315; 524/465; 524/588**

[58] Field of Search ..... 528/15, 20, 21, 12,  
528/31, 32; 525/478; 524/588, 465, 315

[56] **References Cited**

**U.S. PATENT DOCUMENTS**

4,256,870 3/1981 Eckberg ..... 528/15  
4,347,346 8/1982 Eckberg ..... 528/15  
4,609,574 9/1986 Keryk et al. .... 427/407.1  
4,946,878 8/1990 Jensen et al. .... 528/15

**FOREIGN PATENT DOCUMENTS**

1240520 7/1971 United Kingdom .

*Primary Examiner*—Melvyn I. Marquis  
*Attorney, Agent, or Firm*—George A. Grindahl

[57] **ABSTRACT**

A curable organopolysiloxane composition comprising an organopolysiloxane gum having higher alkenyl groups, an organohydrogenpolysiloxane crosslinker, a solvent, a platinum group metal-containing catalyst and an inhibitor therefor provides for the formation of a tough, cured release film.

When this composition is coated on the surface of any of various types of substrates, for example, paper, synthetic resin films, fibers, etc., and then heated for 10 to 20 seconds at 80 to 90 degrees Centigrade, it forms a cured film which manifests an extremely stable release performance for tacky substances, such as, for example, pressure-sensitive adhesives, and the like, while at the same time evidencing an excellent adherence to the substrate itself.

The compositions can be used with synthetic resin films, such as polyolefin, which are easily deformed by heat and with poorly heat-tolerant paper.

**9 Claims, No Drawings**